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United States Patent [19]

Abdow

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[54]		OS FOR UTILIZING HYDROSTATIC S SLEEVE WIRE CONNECTIONS		
[75]	Inventor:	David A. Abdow, Somerset, Mass.		
[73]	Assignee:	The United States of America as represented by the Secretary of the Navy, Washington, D.C.		
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[51]	Int. Cl.6	H01R 43/00		
		29/871 ; 156/49; 174/93		
	Field of Search			
. ,		29/871, 870, 869; 156/49; 285/909		
[56]	References Cited			
U.S. PATENT DOCUMENTS				

4,484,022 11/1984 Eilentropp 29/870 X

4.501.927	2/1985	Sievert 174/93
4,712,285	12/1987	Morel et al 29/870 X
4,839,470	6/1989	Ventura 29/871 X
		Graf 29/871 X
		Sekkelsten 156/49
5,278,354	1/1994	Lhomme 29/871 X

FOREIGN PATENT DOCUMENTS

1102837 2/1968 United Kingdom 174/93

Primary Examiner—Carl J. Arbes Attorney, Agent, or Firm—Michael J. McGowan; Prithvi C. Lall; Michael F. Oglo

[57] ABSTRACT

A hydrostatic sealing sleeve hydrostatically seals a spliced wire connection in high pressure underwater conditions. The sealing sleeve is fashioned from an elastomeric compound, such as neoprene, and is fitted over one end of an insulated wire that is to be spliced onto a butt wire splice. The other insulated wire is spliced together with the first wire and the sealing sleeve is then slid over the butt wire splice where it rests in a centrally located cavity inside the sleeve. The outer ends of the sealing sleeve include sealing baffles which compress onto the outer peripheral surfaces of the insulated wires, creating a high pressure water tight seal.

1 Claim, 1 Drawing Sheet

